#### ACCEPTANCE PROCEDURES FOR FLY ASH FOR CONCRETE

1. SCOPE: Fly ash used in concrete on KYTC construction projects must be on the KYTC's "List of Approved Materials". The following requirements must be met, by the supplier, to gain inclusion on the list and be able to furnish fly ash for acceptance on the basis of certification:

#### 2. SATISFACTORY PAST RECORD

- 2.1. Fly ash from the proposed source shall have met ASTM C618 requirements for the previous six months.
- 2.2. Fly ash from the proposed source shall have had a loss on ignition (LOI) of 3.0% or less and a fineness in conformance ASTM C618 for the previous six months.

## 3. SATISFACTORY TEST RESULTS AND INSPECTIONS BY THE DIVISION OF MATERIALS

- 3.1. The initial source sample shall meet the requirements of ASTM C618 as modified by Section 844 of the Kentucky Standard Specifications for Road and Bridge Construction.
- 3.2. The Division of Materials will conduct periodic inspections and obtain split samples of fly ash from the producer for each approved silo. Inspections and test results must be acceptable by the Division to remain on the List of Approved Materials.

#### 4. SATISFACTORY QUALITY CONTROL PROGRAM

- 4.1. The fly ash distributor shall submit a quality control plan to the Division of Materials for review and approval.
- 4.2. A graduate chemist or laboratory technician shall be employed at the power plant site to perform tests for LOI, moisture and fineness. If a laboratory technician is utilized, a formal in-house competency review of the technician must be performed at a minimum of once per year.
- 4.3. A suitable testing facility located at the power plant with the necessary equipment to perform LOI, moisture, and fineness tests shall be provided by the distributor.
- 4.4. Complete ASTM C618 tests shall be performed at least monthly from composite samples for each approved silo with a copy of the results forwarded to the Division of Materials. All tests reports submitted shall show the date of sampling at the power plant for each sample. No more than sixty days shall have elapsed between the sampling date and the date test reports are received by the Division of Materials.

- 4.5. LOI, moisture, and fineness tests in accordance with ASTM C618 shall be performed at least twice per week for each approved silo. These reports are to be submitted with the complete ASTM C618 test data specified above.
- 4.6. Laboratories performing tests on fly ash for conformance to ASTM C618 (monthly samples) shall participate in the laboratory evaluation program conducted by the Cement and Concrete Reference Laboratory (CCRL) of ASTM. This requirement does not apply to routine process control testing performed at the power plant for fineness, moisture, LOI, and uniformity. The Distributor or CCRL shall forward a copy of the laboratory inspection report and Certificate of Accreditation to the Division of materials.
- 4.7. Sources will be removed from the "List of Approved Materials" when monthly tests reports are not received for two consecutive months or when less than eight monthly reports are received for any twelve month period. Allowances for power plant down time shall be given provided documentation is submitted listing the time period that the power plant (Unit number) was down.
- 4.8. All test results, that is, both the complete ASTM C618 and the twice weekly or more frequent tests for LOI, moisture and fineness; shall be kept by the distributor for a period of not less than three years.

#### 5. SATISFACTORY SHIPPING REQUIREMENTS

- 5.1. Each shipment intended for use on a KYTC project shall be accompanied by a signed certification from the supplier stating that the fly ash complies with ASTM C618 except as modified by KYTC's specifications for LOI.
- 5.2. Each shipment intended for use on a KYTC project shall be accompanied by the latest actual test results for LOI and Fineness.
- 5.3. The certification must include the silo identification that the shipment came from.

APPROVED		
	Director	
	Division of Materials	
DATE	03/03/06	

Kentucky Method 64-325-06 Dated 3/3/06

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# **Kentucky Transportation Cabinet (KYTC) Division of Materials**

### QUALITY CONTROL PLAN FOR FLY ASH

I.	DISTRIBUTOR				
	NAME:				
	ADDRESS (STREET OR POCITY:	BOX): STATE:	ZIP CODE:		
	CONTACT PERSON: PHONE NUMBER:				
	CLASS OF FLY ASH: C	LASS F CLA	ASS C		
II.	POWER COMPANY				
	NAME:				
	POWER PLANT NAME:				
	POWER PLANT LOCATION	N:			
	PHONE NUMBER:				
	UNIT NUMBERS THAT PRODUCE KYTC SPECIFICATION FLY ASH:				
	LIST SILO(s) USED FOR STORAGE:				
	LIST THE UNIT NUMBER(SILO#: UNIT# SILO#: UNIT# SILO#: UNIT# SILO#: UNIT#	SILO# SILO# SILO#	ACH SILO. : UNIT# : UNIT# : UNIT# : UNIT#		
	LIST COMMENTS, IF ANY	:			
III.	LABORATORY FOR (WEEKLY) SAMPLING AND TESTING				
	LABORATORY NAME:				
	ADDRESS (STREET OR POCITY:	BOX): STATE:	ZIP CODE:		
		VM 64 225 06			

	CONTACT PERSON: PHONE NUMBER:			
	NAME OF SAMPLING PERSON:			
	NAME OF TESTING PERSON:			
	IS LABORATORY CCRL ACCREDITED?			
	DOES THIS LABORATORY HAVE THE EQUIPMENT TO TEST FOR LOI (ASTM C311), MOISTURE (ASTM C311), AND FINENESS (ASTM C430)?  YES NO			
	DESCRIBE THE LABORATORY BUILDING USED FOR WEEKLY SAMPLES:			
	MINIMUM TESTING FREQUENCY FOR WEEKLY SAMPLES: PER WEEK			
	POINT OF SAMPLING: SILO TANKER OTHER:			
IV.	LABORATORY FOR (MONTHLY) TESTING - ASTM C618			
	NAME:			
	ADDRESS (STREET OR PO BOX): CITY: STATE: ZIP CODE:			
	CONTACT PERSON: PHONE NUMBER:			
	IS LABORATORY CCRL ACCREDITED?			
	MINIMUM TESTING FREQUENCY FOR MONTHLY SAMPLES: PER MONTH			
	POINT OF SAMPLING: SILO TANKER OTHER:			
V.	OTHER COMMENTS:			
	WHEN ANY CHANGES IN THE ABOVE INFORMATION OCCURS, THE DIVISION OF MATERIALS MUST BE IED IN WRITING.			
	SIGNED (DISTRIBUTOR OFFICAL): DATE:			

KM 64-325-06